Oracle Financial Services Data Model Extension

User Guide

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Oracle Financial Services Data Model Extension User Guide

Document Control

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1.0	June 2022	Created and released the Oracle Financial Services Data Model Extension User Guide.

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1.1 Get Help in the Applications

Use help icons to access help in the application.

Note that not all pages have help icons. You can also access the Oracle Help Center to find guides and videos.

1.1.1 Additional Resources

- Community: Use Oracle Cloud Customer Connect to get information from experts at Oracle, the partner community, and other users.
- Training: Take courses on Oracle Cloud from Oracle University.

1.2 Learn About Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program. Videos included in this guide are provided as a media alternative for text-based topics, and are also available in this guide.

1.3 Get Support

You can get support at My Oracle Support.

For accessible support, visit Oracle Accessibility Learning and Support.

1.4 Get Training

Increase your knowledge of Oracle Cloud by taking courses at Oracle University.

1.5 Join Our Community

Use Cloud Customer Connect to get information from industry experts at Oracle and in the partner community. You can join forums to connect with other customers, post questions, and watch events.

1.6 Share Your Feedback

We welcome your feedback about Oracle Applications user assistance. If you need clarification, find an error, or just want to tell us what you found helpful, we'd like to hear from you.

You can email your feedback to My Oracle Support.

Thanks for helping us improve our user assistance!

1.7 Before You Begin

See the following Documents:

- See What's New
- Get started with Profitability Management Cloud Service

2 Data Model Extension

Customization of Physical Data Model is restricted in the Profitability and Balance Sheet Management (PBSM) Cloud Service. However, it is understood that there may be a need to extend the Data Model to meet multiple business requirements. For this purpose, the PBSM Cloud Service provides OOTB placeholder Columns and Tables that can be configured to use as custom Columns, Custom Dimensions, and Custom Management Ledger Tables as suitable to the business requirements.

These placeholder Columns and Tables must be registered before use. The Data Model Extension Module allows you to do the following types of registrations:

- Dimensions Registration
- Columns Registration
- Management Ledger Registration

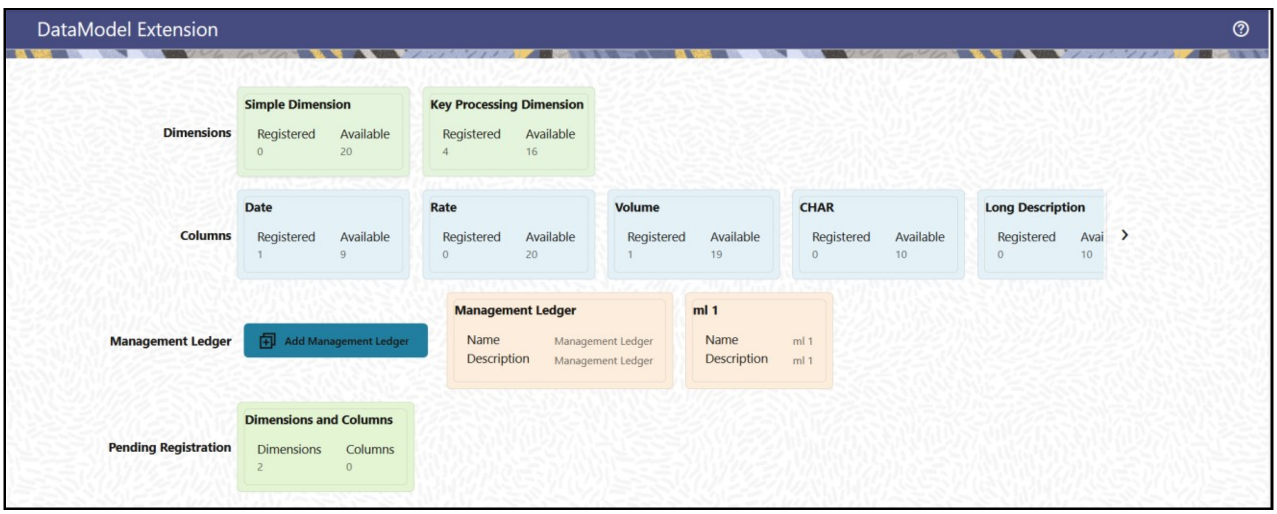
After registration, you can start loading the data in the selected placeholder Columns and Tables and use them to define the Rules and Assumptions for further processing and reporting.

Appropriate user roles must be created and maintained for the users to perform the registration and registration approval processes.

To register the placeholder Columns and Tables, perform the following steps:

1. From the LHS Menu, select **Data Management Tools**, and then select **Data Model Extension** to display the **DataModel Extension** Summary Screen.

Figure 1: DataModel Extension Summary Screen



The **DataModel Extension** Summary Screen displays the following tiles:

- Dimensions
- Columns
- Management Ledger
- Pending Registration

Using this UI, you do the registration of Dimensions, Columns, and Management Ledger Tables. After the registration is done, the detail will be sent to the Supervisor or Approver User who either approves or rejects the registration.

2.1 Registering Dimensions

Through the Dimension Registration UI, you register two types of Dimensions; Simple Dimension and Key Processing Dimensions that are explained in the following topics. Dimensions are the Placeholder Columns and Tables. The column names appear in the Instrument Tables as Physical Column Names. The Data Model Extension UI allows you to define the Logical Layer with details Name, Description, and the purpose of the column. After these columns are defined, they appear in the drop-down lists in the application screens as UDPs (User Defined Properties) that you can use. This process of defining the Dimensions is called Registering.

2.1.1 Register a Simple Dimension

Simple Dimensions are list of values that support neither attributes nor hierarchies. Their three key uses are:

- Reserved for use within the Analytical Application Engines
- Stratifying your data for process or report filtering purposes
- Serving as list of values when used as attributes

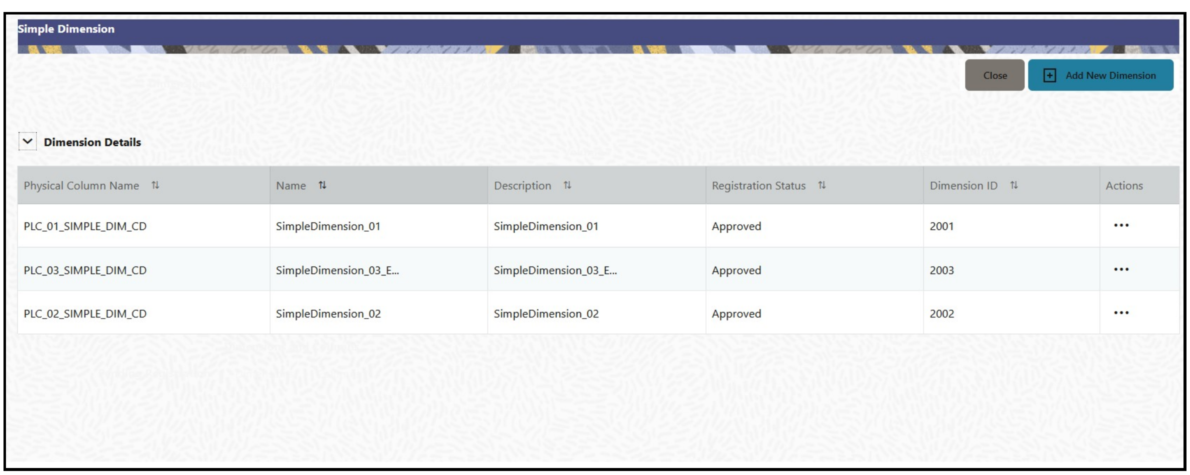
The PBSM Data Model comes with 20 placeholder Simple Dimensions for configuration and use. The member details of simple dimensions are stored in two tables:

- A code table (For example, FSI_SIMPLE_DIM_01_CD)
- A Multi-Language Support table (for example, FSI_SIMPLE_DIM_01_MLS)

To register a Simple Dimension, perform the following steps:

1. Navigate to the **Data Model** Summary Screen, and click the **Simple Dimensions Tile** to display the **Simple Dimension** Summary Screen.

Figure 2: Simple Dimension Summary Screen

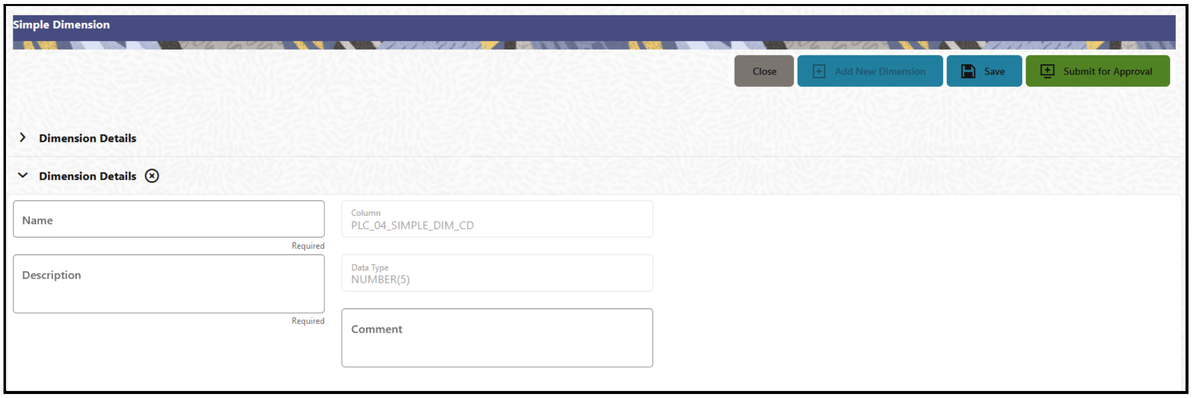


The **Simple Dimension** Summary Screen displays the summary of existing Simple Dimensions with the Physical Column Names, Name, Description, Registration Status, Dimension ID details, and Actions Icon.

2. Click **Add New Dimension** to collapse the Dimension Details Summary and to display the Dimension Details.

   When you click **Add New Dimension**, the UI displays **Save** and **Submit for Approval** Buttons.

   Figure 3: Simple Dimension Screen

3. Enter the following details:

   - **Name** (mandatory): Specify the required logical name of the dimension.
   - **Description** (mandatory): Specify the required description of the dimension.
   - **Comment**: Specify the required maker/checker comment. Note that special characters *, newline, and double quotes are not allowed.

   The **Details** section displays the Physical Column and Data Type information that the dimension uses for user reference. As and when a registration takes place successfully and the physical column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.

4. Click **Save** to save the details. The details are saved as a Draft and displayed on the Summary Screen. You can change the Name, Description, and Comments later by double clicking the details.

5. Click **Submit for Approval** to send the Dimension Details for approval.

   OR

   Select a Name from the list and click the **Actions** Icon to View, View, Edit, Submit for Approval or Delete the Simple Dimension.

   > **NOTE:**
   >
   > - You can delete a registration when it is in *Draft* state.
   > - If the selected Dimension is in *Approved* state, then the Actions menu displays only View, Edit, and Submit for Approval actions.

2.1.1.1 View a Simple Dimension

To view a Simple Dimension, perform the following steps:

1. Click the **Actions** Icon against the selected Simple Dimension to expand the **Actions** Menu.

2. Click **View** to see the details of the selected Simple Dimension.

2.1.1.2 Edit a Simple Dimension

To edit a Simple Dimension, perform the following steps:

1. Click the **Actions** Icon against the selected Simple Dimension to expand the **Actions** Menu.
2. Click **Edit** to display the selected Dimension details in edit mode.
3. Edit the following details:
   - **Name**: This is mandatory.
   - **Description**: This is mandatory.
   - **Comment**: Specify the required maker/checker comment. Note that special characters *, newline, and double quotes are not allowed.
4. Click **Save** to save the details as a draft.
5. Click **Submit for Approval** to send the Dimension Details for approval.

> **NOTE:**
>
> When you edit an already approved Dimension, the Dimension must be submitted for approval again. You cannot delete or edit the Dimension again.
>
> Additionally, if you edit an approved Dimension, then the **Actions** Icon displays only the View option for the Dimension.

2.1.1.3 Delete a Simple Dimension

To delete a Simple Dimension, perform the following steps:

1. Click the **Actions** Icon against the selected Simple Dimension to expand the **Actions** Menu.
2. Click **Delete** to delete the Dimension.

> **NOTE:**
>
> You can only delete a Dimension that is in *Draft* stage. The **Actions** Menu does not display the Delete action for an approved dimension.

2.1.2 Register a Key Processing Dimension

Key Processing Dimensions have the following features:

- Accessible as modeling dimensions for all of the OFSAA Analytical Engines.
- Expressed as columns in nearly all of your Business Fact Tables.
- Support both attributes and hierarchies.

Metadata for Key Processing Dimensions is stored in four tables:

- A base table (For example, **DIM_PRODUCTS_B**)
- A translation table (For example, **DIM_PRODUCTS_TL**)
- An attribute table (For example, **DIM_PRODUCTS_ATTR**)

- A hierarchy table (For example, **DIM_PRODUCTS_HIER**)

Base tables store basic information about each Dimension Member and Translation Tables store names and descriptions for each Dimension Member in multiple languages.

Attribute Tables store one or many attribute values for each Dimension Member. Hierarchy Tables store one or more hierarchies for each dimension (you may define as many hierarchies as you wish for any dimension that supports hierarchies).

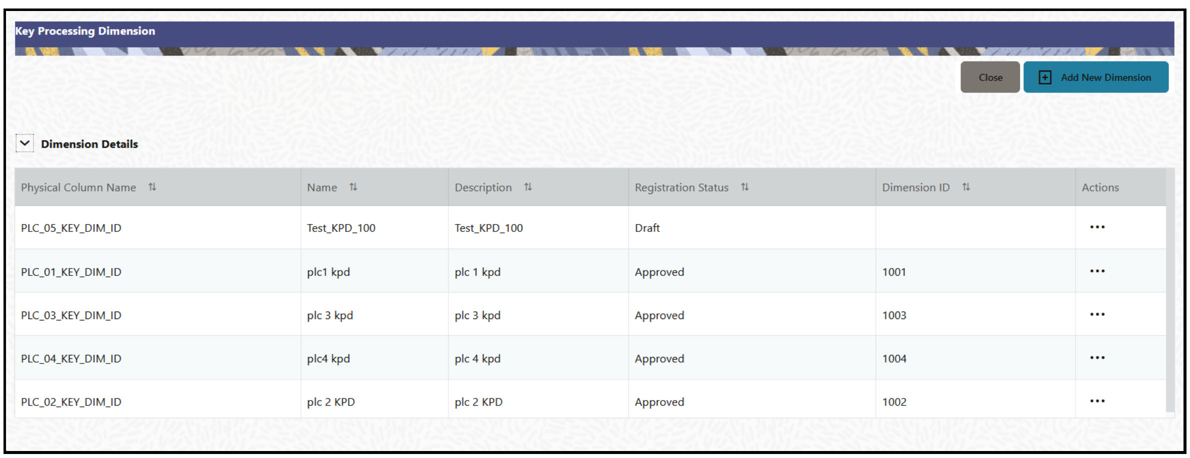
PBSM Cloud Service seeds the following Key Processing Dimensions:

- Financial Element
- Organizational Unit
- General Ledger Account
- Common Chart of Accounts
- Product
- Legal Entity

In addition to the OOTB Key Processing Dimensions, the application's DM Extension Module enables you to create Custom Dimensions as required by the business. To register a Key Processing Dimension, perform the following steps:

1. Navigate to the **Data Model** Summary Screen, and click the **Key Processing Dimension** Tile to display the **Key Processing Dimension** Summary Screen.

   Figure 4: Key Processing Dimensions Summary Screen

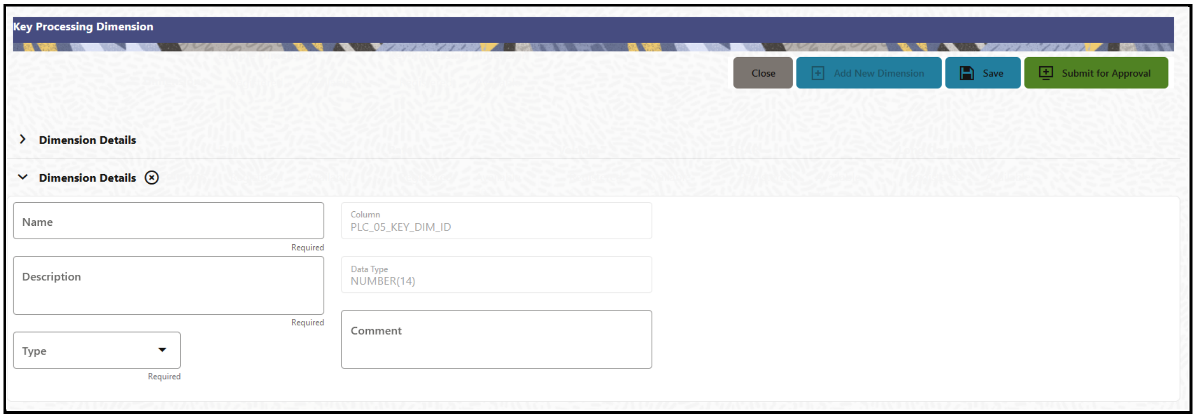
   The Summary Screen displays the summary of existing Key Processing Dimensions with the details Physical Column Names, Name, Description, Registration Status, Dimension ID, and Actions icon.

   The registration of a Dimension happens after the Dimension is approved. The Dimension ID is displayed only for the approved Dimensions.

2. Click **Add New Dimension** to collapse the **Dimension Details** Summary and to display the Dimension Details.

   When you click **Add New Dimension**, the UI displays **Save** and **Submit for Approval** buttons.

   Figure 5: Key Processing Dimension Screen



3. Enter the following details:
   - **Name**: This is a mandatory field. Specify the required logical name of the dimension.
   - **Description**: This is a mandatory field. Specify the required description of the dimension.
   - **Type**: This is a mandatory field. Select a relevant Dimension Type.
     - **Product** (Prod): Select this option if you want to use the placeholder Dimension to define Business Rules and Assumptions.
     - **Organization** (Org): Select this option if you want to use the Placeholder Dimension to define a new Organization structure.
     - **Other**: Select this option if you want to use the placeholder Dimension for any other purpose.
   - **Comment** Specify the required maker/checker comment. Note that special characters *, newline, and double quotes are not allowed.

   The **Details** section displays the Physical Column and Data Type information that the dimension uses for user reference. As and when a registration is successful and the physical column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.
4. Click **Save** to save the details. The details are saved as a *Draft* and displayed on the Summary Screen. You can change the Name, Description, and Comments later by double clicking the details.
5. Click **Submit for Approval** to send the Dimension Details for approval.

   Or

   Select a **Name** from the list and click the **Actions** Icon to View, Edit, Submit for Approval or Delete the Simple Dimension.

   > **NOTE:**
   > - You can delete a registration when it is in *Draft* state.
   > - If the selected Dimension is in *Approved* state, then the Actions Menu displays only View, Edit, and Submit for Approval actions.

2.2 Registering Columns

The Placeholder Columns are categorized under the different domains to be used for different purposes.

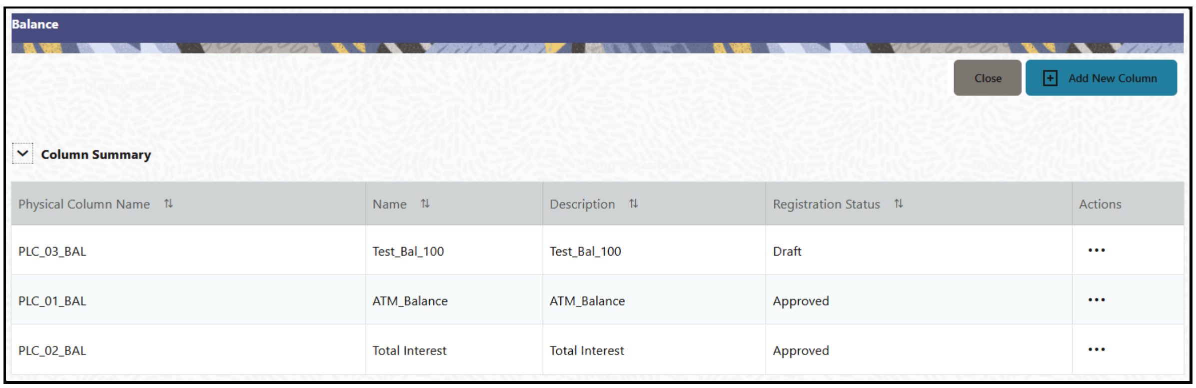
The following domain types are available for the columns:

- Data
- Rate
- Volume
- CHAR
- Long Description
- Flag
- Balance

The procedures to register the listed Columns are similar. To register a Column, perform the following steps:

1. Navigate to the **Data Model Summary** Screen, and click a **Column** tile to display the **Column Summary** Screen.

   Figure 6: Column Summary Screen

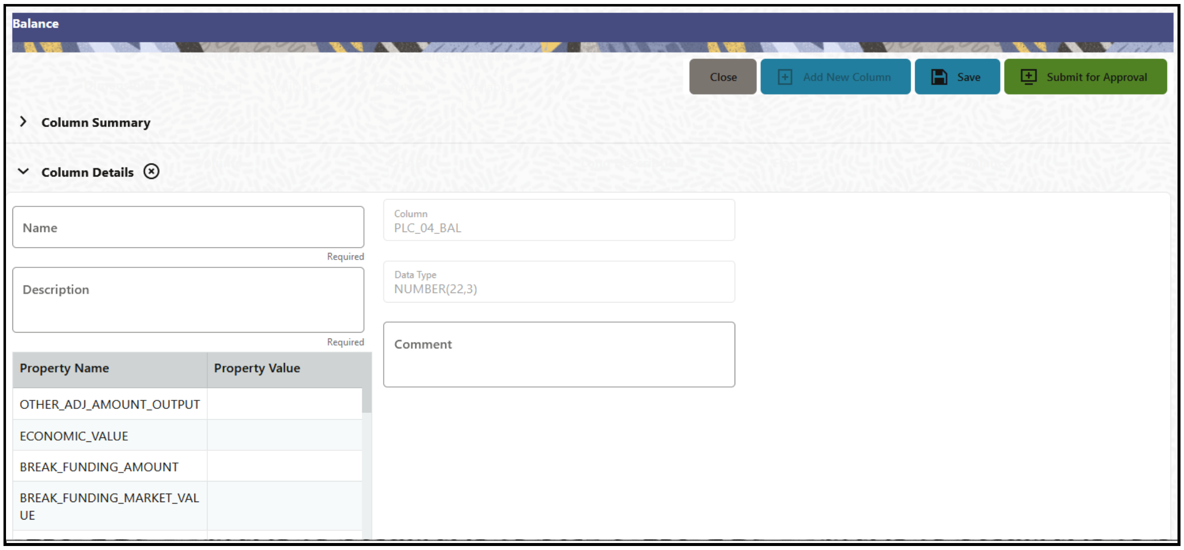
   The **Summary** Screen displays the summary of existing Columns with the details Physical Column Names, Name, Description, Registration Status, and Actions Icon.

   The registration of a Column happens after the Column is approved.

2. Click **Add New Column** to collapse the **Column Details** Summary and to display the Column Details.

   When you click **Add New Column**, the UI displays the **Save** and **Submit for Approval** Buttons.

   Figure 7: Column Screen



3. Enter the following details:
   - **Name**: This is mandatory. Specify the required logical name of the column.
   - **Description**: This is a mandatory field. Specify the required description of the column.
   - **Property Name**: This is an optional field used to select a relevant Property from the drop-down list, as applicable to the Column.
   - **Property Value**: Double click to display a drop-down where you can select Yes if it is applicable to the Column.
   - **Comment**:Specify any Maker/Approver comment. Note that special characters *, newline, and double quotes are not allowed.

   The **Details** Section displays the Physical Column and Data Type Information that the column uses for user reference. As and when a registration takes place successfully and the Physical Column is utilized, the next registration process proceeds to take the next-in-numerical-order physical column available for registration.

4. Click **Save** to save the details. The details are saved as a *Draft* and are displayed on the **Summary** Screen. You can change the Name, Description, and Comments later by double clicking the details.

5. Click **Submit for Approval** to send the Column Details for approval.

   OR

   Select a Name from the list and click the **Actions** Icon to View, Edit, Submit for Approval, or Delete the Column. Editing, Submitting for Approval, or Deleting procedures are similar to Dimension Edit, Submit for Approval, or Delete procedures.

> **NOTE:**
>
> - You can delete a registration when it is in *Draft* state.
> - If the selected Dimension is in *Approved* state, then the Actions menu displays only View, Edit, and Submit for Approval actions.

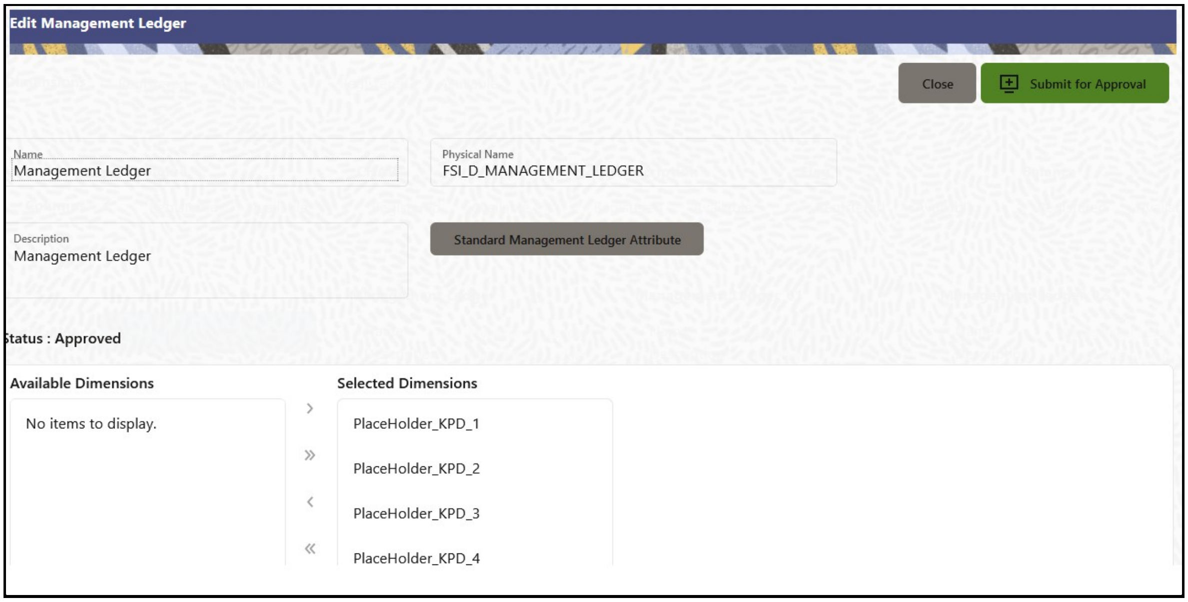
2.3 Registering a Management Ledger

PBSM Cloud Service is contains the default Management Ledger (FSI_D_MANAGEMENT_LEDGER). However, you can add upto five other Management Ledgers to the Service.

To view and edit the Management Ledger, perform the following steps:

1. Navigate to the **Data Model Summary** Screen, and click the **Management Ledger** tile to display the **Edit Management Ledger** Screen.

   Figure 8: Edit Management Ledger Screen

   This screen displays the following details of the Management Ledger as follows:

   - **Name** (non-editable)
   - **Physical Name** (non-editable)
   - **Description** (non-editable)

2. Click **Standard Management Ledger Attribute** to collapse and see the available Standard Dimensions, Standard Columns, and Approved Dimensions.

   The Standard Dimensions Section shows the Key Processing Dimensions that are available OOTB for the Management Ledger. In addition to this, the Screen enables the selection of custom Key Processing Dimensions for the Management Ledger through a shuttle box component that displays the registered custom dimensions in the **Available Dimensions** and the **Selected Dimensions** Boxes. You can select from the Available Dimensions Box and move them to the Selected Dimension Box using the Move Button. Additionally, you can remove the Selected Dimensions by clicking the Move Back Button.

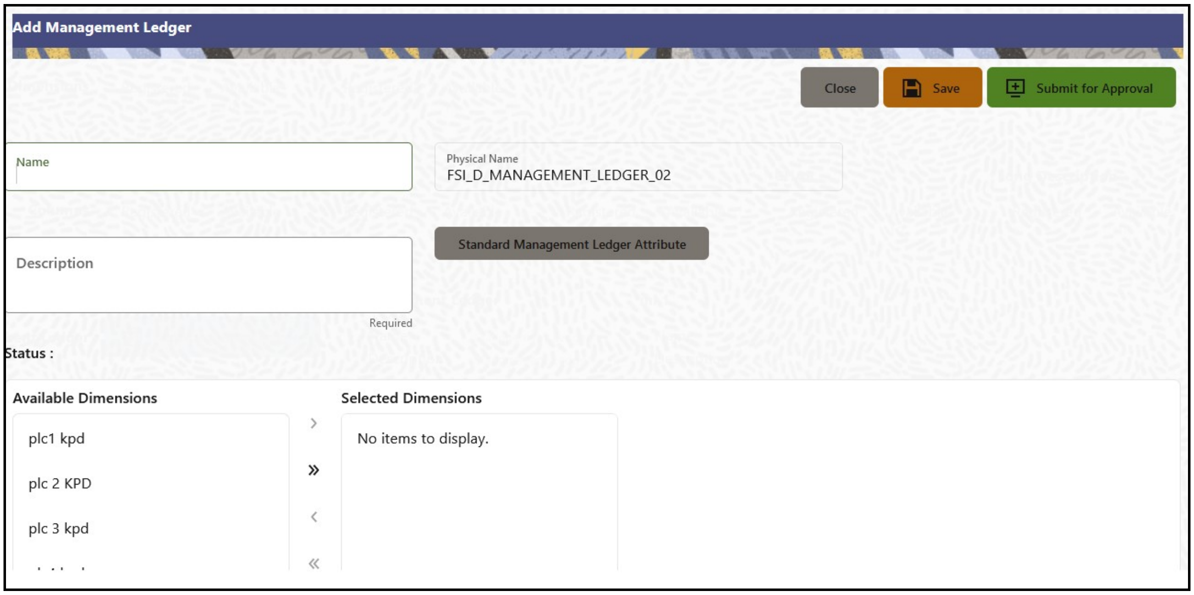
   The Standard Columns comprises of the OOTB Ledger-level Simple Dimensions and Admin Columns. The Approved Dimensions shows the list of Custom Dimensions approved for the Management Ledger.

2.3.1 Adding a Management Ledger

To add a new Management Ledger, perform the following steps:

1. Navigate to the **Data Model Summary** Screen, and click the **Add Management Ledger** tile to display the **Add Management Ledger** Screen.

   Figure 9: Add Management Ledger Screen

2. Enter the following details:
   - **Name**: This is a mandatory field. Specify the logical name of the Management Ledger.
   - **Description**: This is a mandatory field. Specify the description of the Management Ledger.
3. Select the applicable Dimensions from the **Available Dimensions** Box and click the **Move** Button to move them to **Selected Dimensions** Box. The selected Dimensions are included as the additional activated Key Processing Dimensions for the Management Ledger.
4. Click **Submit for Approval** to send the Column Details for approval.

   The details are sent to the Supervisor or Approver for approval. The newly added Management Ledger is displayed on the Summary Screen in a new tile.

   NOTE:
   - You can delete a registration when it is in *Draft* state.
   - If the selected Dimension is in *Approved* state, then the **Actions** Menu displays only View, Edit, and Submit for Approval actions.

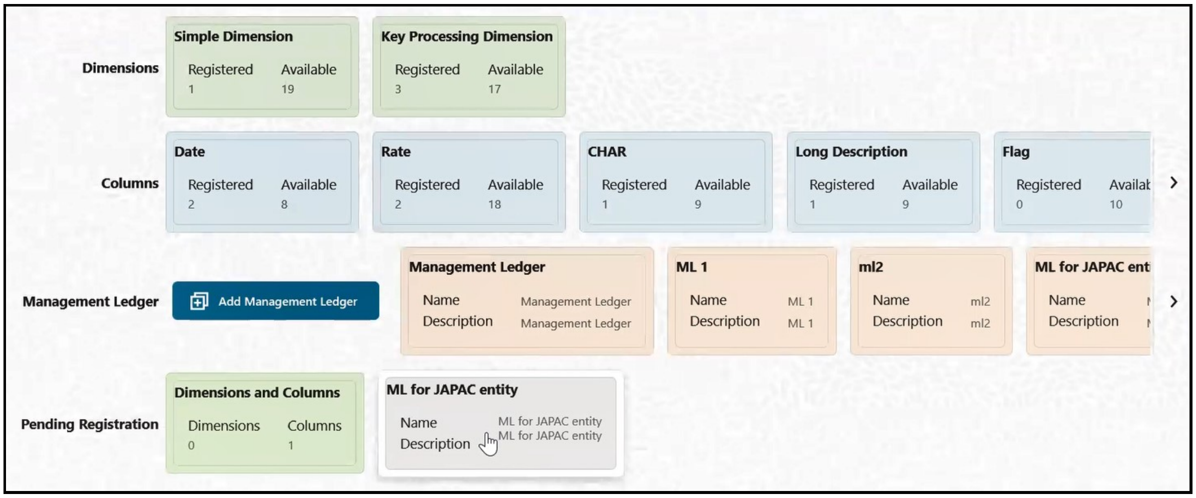
2.4 Approving or Rejecting the Registrations

The Supervisor or Approver can see the Dimensions or Columns or Management Ledgers that are ready for approval on the **Data Model Extension** Summary Screen.

To approve the Dimensions, Columns, and Management Ledgers, perform the following steps:

1. Navigate to the **Data Model Extension** Summary Screen.

   Figure 10: Data Model Extension Summary Screen

   The Dimensions and Columns that are ready for approval are displayed in one tile and the Management Ledgers that are ready for approval are displayed in another tile against the **Pending Approval** Table.

2. Click on any Tile to open to the **Pending Dimension** and **Column Registration** Screen or **Approve Management Ledger Registration** Screen.

3. Enter a comment and click the **Approve** or **Reject** Buttons.

   When you click **Approve** or **Reject** Button, a drop-down appears displaying the **OK** and **Cancel** options.

4. Select **OK**.

   The approved Dimension or Column or Management Ledger is displayed in the Summary Screen with *Approved* status.

   OR

   Select **Cancel** to keep the Dimension or Column or Management Ledger in a *Pending for Approval* Status.

5. Click **Reject** to reject the registration. Complete the approval process. The Registration will be marked with status *Rejected* in the Summary Screen.

6. After it is approved or rejected, the registration is available for further modification by the *Maker* and can be submitted again.

   A registration cannot be deleted after it has passed the Draft State and is currently in *Pending*, *Approved* or *Rejected* state.

OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA Applications.

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- Did you find any errors?
- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the My Oracle Support.

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